DoD M&S Master Plan Update & Status Report to MSRR BOD Sept 4, 2001

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Discussion

- **Why we need an MSMP at the DoD (enterprise) level**
  - Establish/identify major DoD M&S challenges
    - Common focus for Component-level plans
  - Framework to manage/chart the progress toward the DoD M&S Vision
    - Demonstrate Integration & Cooperation
    - Identify and de-conflict Resource issues
    - Establish & describe Departmental priorities
  - Provides the means for M&S to make the DoD more effective and efficient
  - A reference document for the USD(AT&L) to use in support and defense of M&S

REFRESHER: What this Plan IS

- **Common, inter-related DoD M&S objectives focused on what's important to the Department of Defense**
- **A policy statement that affords DoD Components maximum leeway to address common M&S objectives from their own perspectives**
- **A strategic-level document to focus the Department's efforts to make M&S more affordable, usable, interoperable, reuseable, etc**
- **The outline of a process and goals for the EXCIMS and USD(AT&L) to use to ensure M&S increases the efficiency and effectiveness of the Department's full array of missions and functions**
- **The "WHAT is to be done" but not the "HOW it is to be done"**

REFRESHER: What this Plan IS NOT

- **A detailed explanation of how objectives and milestones will be met**
- **An unfunded mandate requiring Components to focus exclusively on listed objectives and sub-objectives**
- **A new requirement to develop DoD and Component M&S Master and Investment Plans—already required by DoD Directive 5000.59**
- **A delineation of new responsibilities for the EXCIMS**
- **A DMSO Master Plan or the DMSO's role in executing the plan**
- **A substitute for guidance or direction that should be developed by individual OSD and DoD Components**
- **About the use/application of M&S in any one functional area or domain**

Strategic perspective on DoD MSMP

- **Common focus for <u>Component-level plans</u>**
  - A guide? (*no*)
  - How to? (*no*)
    - Tell the Components what to do? (*no*)
    - Tell the Components how to do it? (*no*)
    - Tell the Components when to do it? (*no*)

Describes **What** needs to be done…leaves **<u>how</u>** up to you…

Responses to-date:
(A General Characterization)

There appears to be <u>general agreement that</u>:

- **The 5 Objectives are valid**
- **There are too many sub-objectives**
- **There are too many milestones**
- **There should be an assignment of responsibilities**
- **The plan should remain at the strategic-level**
- **The format must be conducive to Component flexibility**

- **<u>NOTE: Approximately 50% response so far – (end of July due date)</u>**

Responses to-date:

(A General Characterization)

There are differing views:

Sub-objectives & Milestones…

are either: **- too aggressive,**

- already complete,

- or too hard to do

Draft DoD MSMP…

is either: **- an unintegrated collection of miscellany,**

- or too detailed,

- or well written

Responses to-date:

(A General Characterization)

There are differing views on metrics :

- Metrics (as part of milestones) need to be:

- **Left as is**
- **Tightened**
- **Loosened**
- **Deleted**
- **Redefined**

Responses to-date:

(A General Characterization)

There are differing views on expectations… i.e. “where is:

- **DMSO? SEDRIS? HLA? Warfighter? C4I-to-Simulation?**
- **JSIMS/JWARS/JMASS/[*your simulation here*]?**
- **JV 2020?**
- **Defense Transportation System?**
- **DoD/Joint Mission Areas?**
- **SBA?**

Etc?

Proposed Fixes

- **Establish and agree on Overall performance management-type goal (discussion to follow)**
- **Reduce number of sub-objectives**
- **List main objectives “up front”**
- **Move sub-objectives to enclosure**
- **Address perceived sub-objective overlap**
  – integrate across sub-objectives
- **Re-address metrics & milestones – fewer?**

No prescribed or mandated Component priorities or resource assignments

Ownership of management responsibilities unchanged

Component flexibility remains foremost

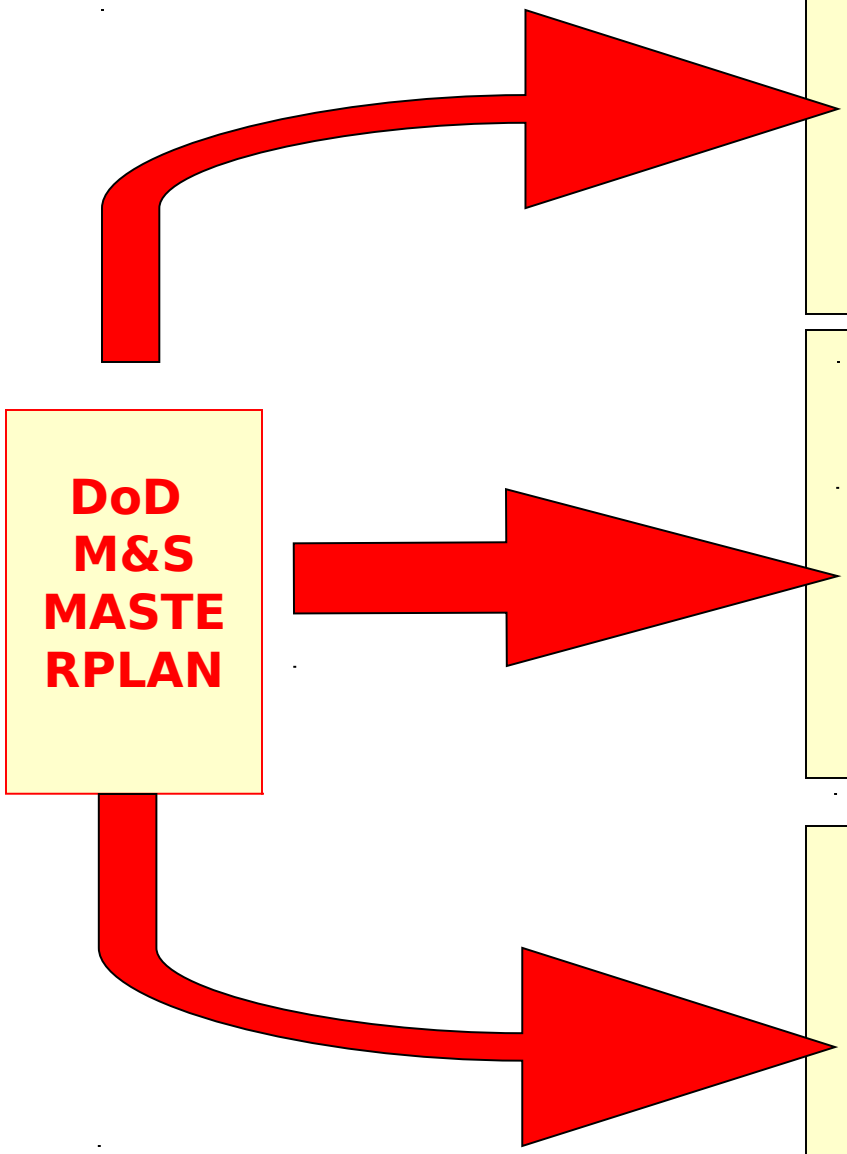
Summary / Conclusion

- **Still awaiting inputs from some EXCIMS Members**
- **The story so far:**
  - **General consensus on objectives**
  - **Smaller document needed**
  - **Performance Management**
    - **…**
    - **…**
  - **Thanks for Your Hard Work**
- Fair amount of effort expended
- Many thoughtful ideas and suggestion received

Next steps

Back up Slides

Alternatives



DoD Directive

- Initiates, governs, or regulates actions or conduct by DoD Components
- Establish or describe policy , programs and organizations; provide authority; assignm responsibility Provides uniform procedures for managing opnl systems & disseminating administrative information

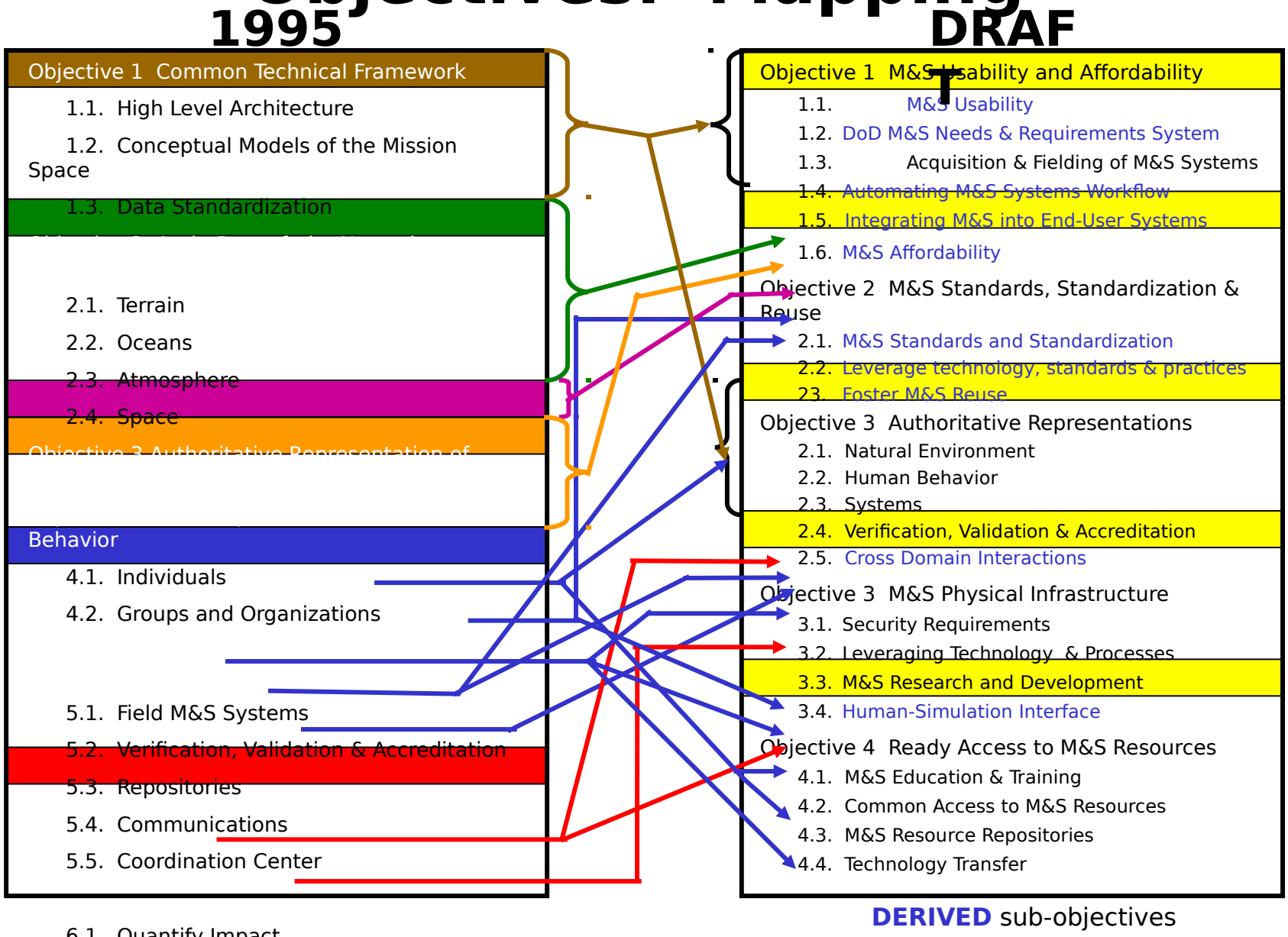
DoD Instruction

- Implements policy or prescribes how to carry out policy or operate a program or activity; assign responsibility
- Primary purpose: execute policy by prescribing a course of action or operating procedures when standardization is necessary

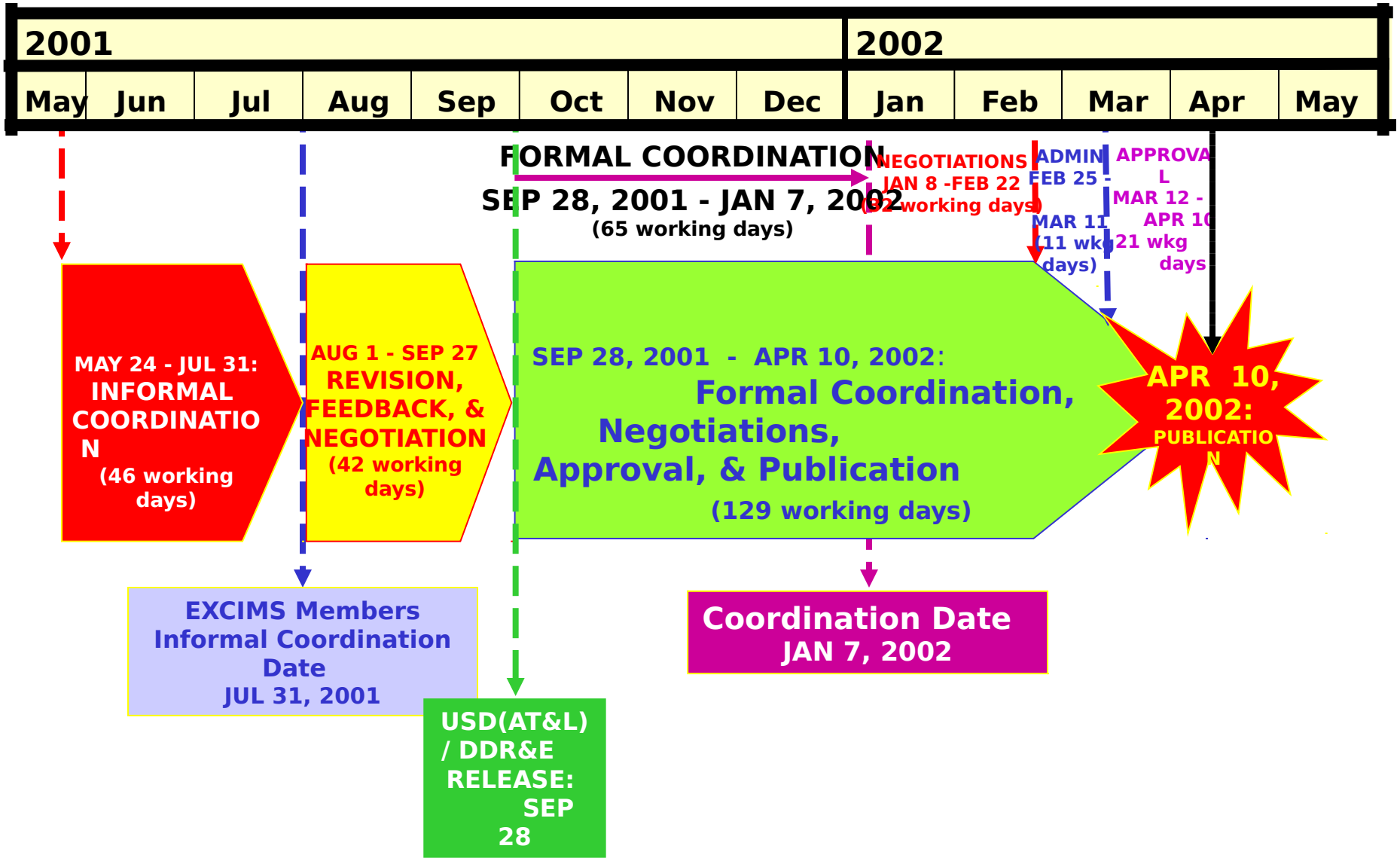
DoD Publication

- Implements DoD Directive or DoD Instruction
- Provides uniform procedures for managing opnl systems & disseminating administrative information

1995 and Draft M&S Master Plan Objectives: Mapping



DoD M&S Master Plan Timeline: May 2001 - May 2002



DoD M&S Vision

Defense modeling and simulation will provide readily-available, operationally-valid environments for use by DoD components

- **to train jointly, develop doctrine and tactics, formulate operational plans, and assess war fighting situations**
- **as well as to support technology assessment, system upgrade, prototype and full scale development, and force structuring.**

Furthermore, common use of these environments will promote a closer interaction between the operations and acquisition communities in carrying out their respective responsibilities. To allow maximum utility and flexibility, these modeling and simulation environments will be constructed from affordable, reusable components interoperating through an open systems architecture.

Approved by the USD(A) at March 12, 1992, DoD EXCIMS Mtg & Reaffirmed by the EXCIMS at their May 12, 1999, Meeting

Draft DoD M&S Objectives

OBJECTIVE 1

M&S USABILITY AND AFFORDABILITY

SUB-OBJECTIVES:

1.1 M&S USABILITY

1.2. DoD M&S NEEDS & REQUIREMENTS SYSTEM

1.3. ACQUISITION & FIELDING OF M&S SYSTEMS

1.4. AUTOMATING M&S SYSTEM SUPPORT

1.5. INTEGRATING M&S INTO END-USER SYSTEMS

1.6. M&S AFFORDABILITY

OBJECTIVE 2

M&S INTEROPERABILITY & REUSE

SUB-OBJECTIVES:

2.1. STANDARDS & STANDARDIZATION PROGRAM

2.2. COMMERCIAL TECHNOLOGIES

2.3. M&S REUSE

OBJECTIVE 3

AUTHORITATIVE REPRESENTATIONS

SUB-OBJECTIVES:

3.1 ENVIRONMENTAL REPRESENTATIONS

3.2. HUMAN BEHAVIOR REPRESENTATIONS

3.3. SYSTEMS REPRESENTATIONS

3.4. VERIFICATION, VALIDATION, & ACCREDITATION (VV&A)

3.5. CROSS-DOMAIN INTERACTIONS

OBJECTIVE 4

DoD M&S INFRASTRUCTURE

SUB-OBJECTIVES:

4.1 SECURITY REQUIREMENTS

4.2. LEVERAGING TECHNOLOGIES & PROCESSES

4.3. M&S RESEARCH & DEVELOPMENT

4.4. HUMAN SIMULATION INTERFACE

OBJECTIVE 5

READY ACCESS TO M&S RESOURCES

SUB-OBJECTIVES:

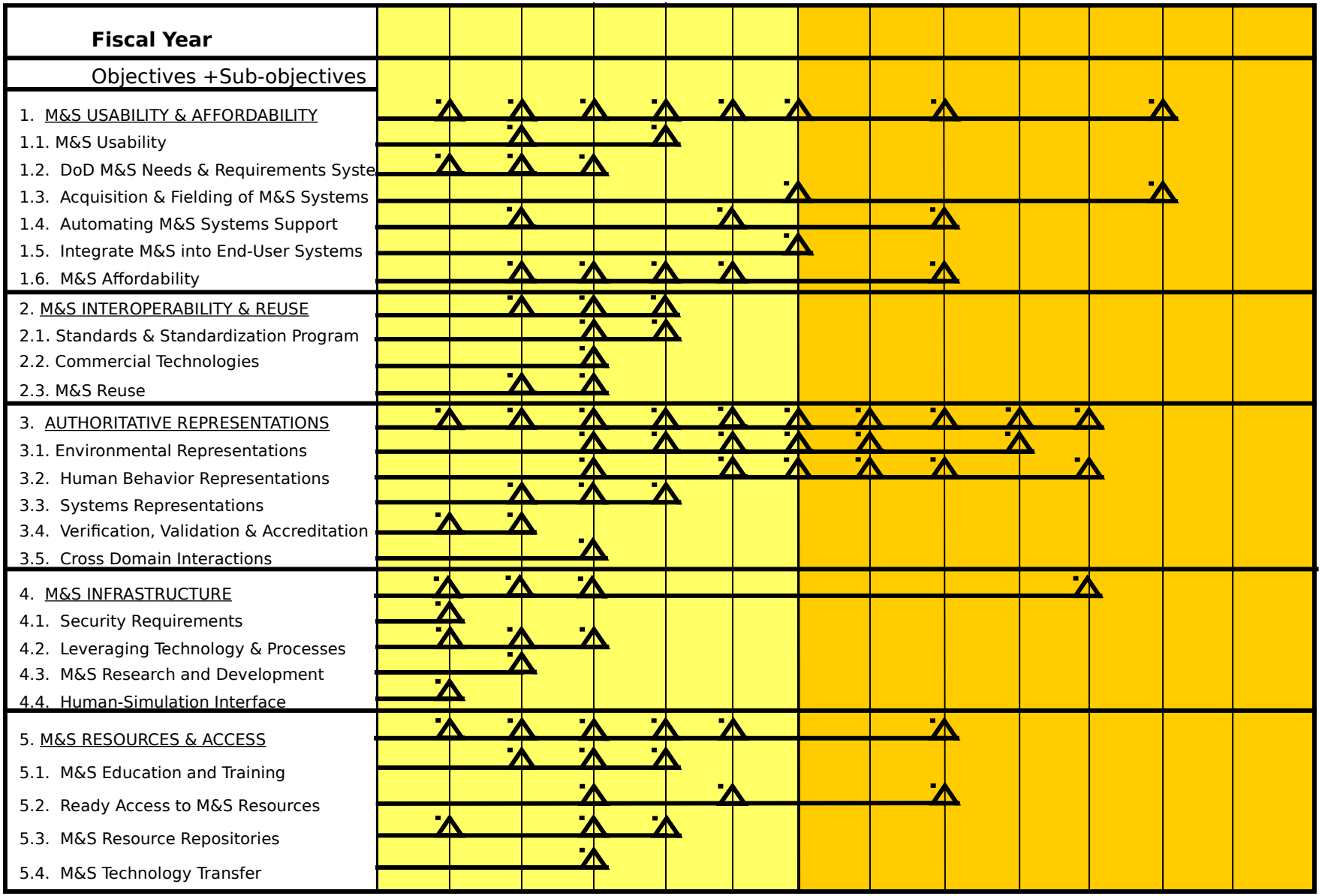
5.1 M&S EDUCATION & TRAINING

5.2. READY ACCESS TO M&S RESOURCES

5.3. M&S RESOURCE REPOSITORIES

5.4. M&S TECHNOLOGY TRANSFER

DRAFT Master Plan Milestones



Legend: Short-term Long-term

Relationship

- Traceable to Strategic DoD M&S Objectives
- Milestones
- Investments